

IN THE SPECIFICATION:

Please REPLACE paragraph [0019], with the following paragraph:

[0019] According to one aspect, wiring used to connect the determining units and the associated sensors is a sheathed sensor cable that is ~~sheath having a~~ water proof, dust proof, rust proof, and moisture proof, and resists oil, heat, and electromagnetic noise.

Please REPLACE paragraph [0022], with the following paragraph:

[0022] The control unit has an automatic monitoring mode and a terminal operated mode. In the automatic monitoring mode, a result of determination performed by each of the determining units is acquired by sequentially issuing a transmission request to request the respective determining unit to send the result of determination, whereas ~~and~~ in the terminal operated mode, when a transmission request is made to request the respective determining unit to send the result of determination and information other than the result of determination a response thereto is acquired.

Please REPLACE paragraph [0044], with the following paragraph:

[0044] Preferred embodiments of the present invention will now be described with reference to the accompanying drawings. Shown in FIG. 1 is a monitoring system embodying the present invention, which is used for monitoring a plurality of machine components 1 employed in a machine system 2 and including rolling elements. This monitoring system includes a plurality of determining units 4 each electrically connected with a plurality of sensors 3 and a control units unit 5 common to and electrically connected with the determining units 4. The sensors 3 are installed one for each of the machine components 1 and positioned in the vicinity of the respective machine component 1. Each of the determining units 4 is operable in response to an output signal from the sensors 3 that are connected therewith to determine the status such as, for example, the presence or absence of an abnormality and/or the lifetime of the machine components 1, associated with such sensors 3, according to a predetermined process set-up condition. The control units-unit 5 has a capability of collecting results of determination

performed by the determining units 4, and, also, a capability of issuing setting commands or the like to each of the determining units 4. ~~and the~~ The control unit 5 includes an electric power unit feeding an electric power to all of the determining units 4. The control unit 5 may be a stand-alone instrument, but in the illustrated embodiment the control unit 5 comprises a dedicated controller 6 and a general purpose information processing device 7 such as, for example, a personal computer to collect data or perform other functions. Each of the determining units 4 and the associated sensors 3 altogether constitute a sensing/determining unit 90.

Please REPLACE paragraph [0050], with the following paragraph:

[0050] Each of the determining unitunits 4 has relay terminals 20a and 20b, and these determining units 4 are sequentially connected with the controller 6 through the relay terminals 20a and 20b. The relay terminals 20a and 20b are connected with each other, and each of these relay terminals 20a and 20b has a signal and power terminal portions (not shown). For wiring 21 used to connect the determining units 4 with each other and also to connect the determining unit 4 with the controller 6, a device network cable is employed. The device network cable is generally known as a cable used to connect appliances for bus communication and, at the same time, to supply an electric power among the appliances. This wiring 21 is used in the form of a bus system allowing a plurality of appliances to share a common transmission line. The use of the bus system makes it possible to minimize the number of transmission lines. More specifically, a half duplex transmission system such as, for example, RS-485 is used therefor. Although a full duplex transmission may be equally employable, the use of the half duplex transmission system is preferred, so that the number of the transmission lines can be minimized, and in view of the size of a load on transmission processing.